Data sheet

HP RP7, Model 7800

The elegant powerhouse

June 2013

HP RP7, Model 7800 Retail System

Get ready for the next-generation all-in-one retail solution from HP. Sleek, stylish, and able to effortlessly integrate into your current environment, the HP RP7 Retail System can be customized for everything you need and nothing you don't.

Impressive everywhere you look

Enhance your store image with the modern, space-saving HP RP7, which has all the capabilities of a traditional retail solution and a sleek design that effortlessly fits into retail and hospitality environments. Use it on a counter or mounted on a wall. Select from the HP RP7 Adjustable Stand with a unique dual hinge base that supports adjustable tilt and height, or the HP RP7 Value Stand, a single hinge design with adjustable tilt that is ideal for tight spaces and sits neatly on top of HP RPOS Cash Drawers.

Sleek, flush-bezel edges (available on the Projected Capacitive displays only) also make the HP RP7 an appealing self-service kiosk that will attract customers and that your employees can't wait to use. Connection points on all four sides of the display let you customize the exact combination of stylish HP retail peripherals (magnetic stripe reader, fingerprint reader or webcam) you need to complete your solution.[1]

Performance you can trust

Quad-core 2nd Generation Intel® Core™ processors with Intel® vPro™ Technology (select configurations) deliver hardware-based remote management technologies and a stable, secure, and reliable infrastructure.[2,3] DDR3 RAM technology helps ensure fast application loading and toggling between screens. Choose up to two hard drives or solid state drives with RAID capabilities.

Select a 15-inch or 17-inch diagonal display head, and then customize it with intuitive and familiar projected capacitive touch technology or the flexible navigation features of resistive touchscreen.[4] Intrusion protection helps protect against dust and liquid spills.

Add a sharp customer-facing display (CFD). The HP RP7 10.4-inch CFD Display is perfect for additional advertising and promotional opportunities. The HP RP7 VFD Customer Display offers easy-to-read price and product information.

Substance beyond style

The HP RP7 is retail-hardened for use in ambient environments up to 40°C. The steel chassis, on-board monitoring and alerts, and environmental and shock testing stand up to the long term wear and tear of retail environments.

The extended product lifecycle helps ensure consistency in your install base, and the three-year limited warranty on the entire solution gives you peace of mind about your investment.[5]

For more information, please visit hp.com/go/pos.

HP RP7, Model 7800 Retail System—Specifications

Operating system	**Preinstalled** Windows 7 Professional (32-bit or 64-bit)* Windows Embedded POSReady 7 (32-bit or 64-bit) Windows Embedded POSReady 2009 FreeDOS	**Supported** Windows XP Professional Edition (32-bit) **Certified** Novell SUSE Linux Enterprise Desktop†
Processor[2,3]	Intel® Core™ i5-2400S (2.50 GHz, 6 MB cache, 4 cores) featuring Intel® vPro™ Technology and Intel® HD Graphics 2000 Intel® Core™ i3-2120 (3.30 GHz, 3 MB cache, 2 cores) with Intel® HD Graphics 2000 Intel® Pentium® G850 with Intel® HD Graphics (2.90 GHz, 3 MB cache, 2 cores) Intel® Celeron® G540 with Intel® Graphics (2.50 GHz, 2 MB cache, 2 cores)	
Chipset	Intel® Q67 Express	
Memory[6]	Two DIMMs, dual-channel; Standard non-ECC DDR3 PC3-10600 (1333 MHz) and PC3-8500 (1066 MHz) memory; supports up to 16 GB. NOTE: Dual channel memory configurations supported for enhanced performance. When memory is labeled DDR 800 MHz, it will clock down to run at 667 MHz system speed	
Internal storage[7]	320 GB SATA 6.0GB/s hard drive (7200 rpm) SMART IV, 2.5"; available 32 GB (RAID not supported), 128 GB, or 256 GB 2.5" SSD	
Audio[9]	Rear-line input (supports microphone or line input), line-out; line-out may be used if CFD installed; High Definition Audio with Realtek ALC261 codec (all ports are stereo); SRS Premium Sound audio management technology; Multi-streaming capable; Dual Internal Speakers (standard)	
Communications	Integrated Intel® 82579LM Gigabit Ethernet Network Connection Optional Wireless LAN: Intel WLAN 802.11 a/g/n 6205 Mini PCIe	
Ports and connectors	6 USB 2.0 2 USB+PWR 12V (1 available if HP RP7 VFD Customer Display is installed) 1 USB+PWR 24V (Printer) 1 USB in lockable compartment (Security screw provided and housed in I/O cover. Requires the HP security screwdriver) 1 RJ-12 Cash Drawer (dual drawers via optional Y cable) 2 RS-232 Powered (+5V/+12V, F-10 Setup Configurable) 1 Parallel 1 PS/2 (supports keyboard or mouse, both through a splitter)	1 DVI-I for Secondary Display (not available if HP RP7 10.4-inch CFD is installed) 1 RJ-45 10/100/1000 LAN 1 Audio line-in 1 Audio line-out (not available if HP RP7 10.4-inch CFD is installed and audio is connected) 1 DC-in (for power supply) 1 DC-out (for HP RP7 10.4-inch CFD only) 4 connectors for select HP integrated peripherals
Power supply	180W EPS 87% Efficiency power supply – Active PFC; ENERGY STAR® compliant	
Dimensions (W x D x H) **NOTE:** Does not include MSR, Biometric Reader, Webcam, VFD, or CFD	**With HP Adjustable Stand and 15-inch diagonal display:** 14.41 x 16.7 x 13.22 in (36.6 x 42.4 x 33.58 cm)	
	With HP Adjustable Stand and 17-inch diagonal display: 15.18 x 16.95 x 13.67 in (38.6 x 43.07 x 34.72 cm)	
	With HP Value Stand and 15-inch diagonal display: 14.41x7.59x14.801 in (36.6 x19.27 x 37.61 cm)	
	Without stand and with 15-inch diagonal display: 14.41 x 3.52 x 14.41 in (36.6 x 8.94 x 31.3 cm)	
	Without stand and with 17-inch diagonal display: 15.18 x 3.58 x 13.34 in (38.56 x 9.1 x 33.89 cm)	

Weight **NOTE:** Does not include MSR, Biometric Reader, Webcam, VFD, or CFD	**With HP Adjustable Stand and with 15-inch diagonal display:** 27.37 lb (12.31 kg)
	With HP Adjustable Stand and with 17-inch diagonal display: 28.96 lb (13.03 kg)
	With HP Value Stand and with 15-in diagonal display: 18.74 lb (8.5 kg)
	Without stand and with 15-inch diagonal display: 13.78 lb (6.25 kg)
	Without stand and with 17-inch diagonal display: 15.43 lb (7 kg)
Warranty[5]	3-3-3 limited warranty delivers on-site, next business-day service for parts and labor and includes free telephone support 24 x 7. You can also select from a range of HP CarePack services to extend your protection beyond the standard warranties. See hp.com/go/lookuptool for more information.

HP RP7, Model 7800 Retail System—Display options (one per configuration)

Display	HP RP7 15-inch Resistive AFD Display (B0T24AV)	HP RP7 15-inch Projected Capacitive AFD Display (B0T23AV)	HP RP7 17-inch Projected Capacitive AFD Display (B0T25AV)
Display panel	15-inch diagonal	15-inch diagonal	17-inch diagonal
Touch technology	5-wire resistive type	Projected Capacitive	Projected Capacitive
Resolution[10]	1024 x 768	1024 x 768	1280 x 1024
Max color	16.7M	16.7M	16.7M
Contrast ratio[10]	700:1	700:1	800:1
Brightness[10]	350 cd/m^2	350 cd/m^2	225 cd/m^2
Pixel pitch	0.297mm x 0.297mm	0.297mm x 0.297mm	0.264mm x 0.264mm
Viewing angle	160° horizontally and 140° vertically	160° horizontally and 140° vertically	170° horizontally and 160° vertically
Response rate[10]	25 ms on/off	25 ms on/off	20 ms on/off

HP RP7, Model 7800 Retail System—Options[11]

HP Retail Integrated Fingerprint Reader (B0T13AV/QZ672AA)	Eliminates password sign-in hassles and buddy-sign-in and enables additional security for employee authentication and manager approvals/transaction overrides. Requires fingerprint reader-enabled software/application, sold separately.
HP Retail Integrated Dual-Head MSR (B0T12AV/QZ673AA)	Enables MSR credit card transactions or loyalty card integration without adding clutter to the retail work space.
HP Retail Integrated Webcam[12] (B0T03AV/QZ700AA)	Enables interactive technical support for retail serviceability; supports personalized customer interface with online/remote CSRs in a kiosk setup.
HP RP7 10.4-inch CFD Display (B0T22AV/QZ702AA)	10.4-inch diagonal non-touch monitor perfect for advertising and promotional opportunities. Monitor comes standard as head only. HP Dual Position L6010 Stand (A1X79AA) is available for separate purchase.
HP RP7 VFD Customer Display (B0T26AV/QZ701AA)	2x20 customer-facing display offers easily readable price and product information.
HP RP7 Adjustable Stand (B0T02AV/QZ703AA)	Use the stand for on-the-counter placement of the HP RP7 Retail System.
HP RP7 Value Stand (E3A13AV/E5E14AA)	Use the stand for on-the-counter placement in tight spaces or set it on top of HP Retail Cash Drawers.

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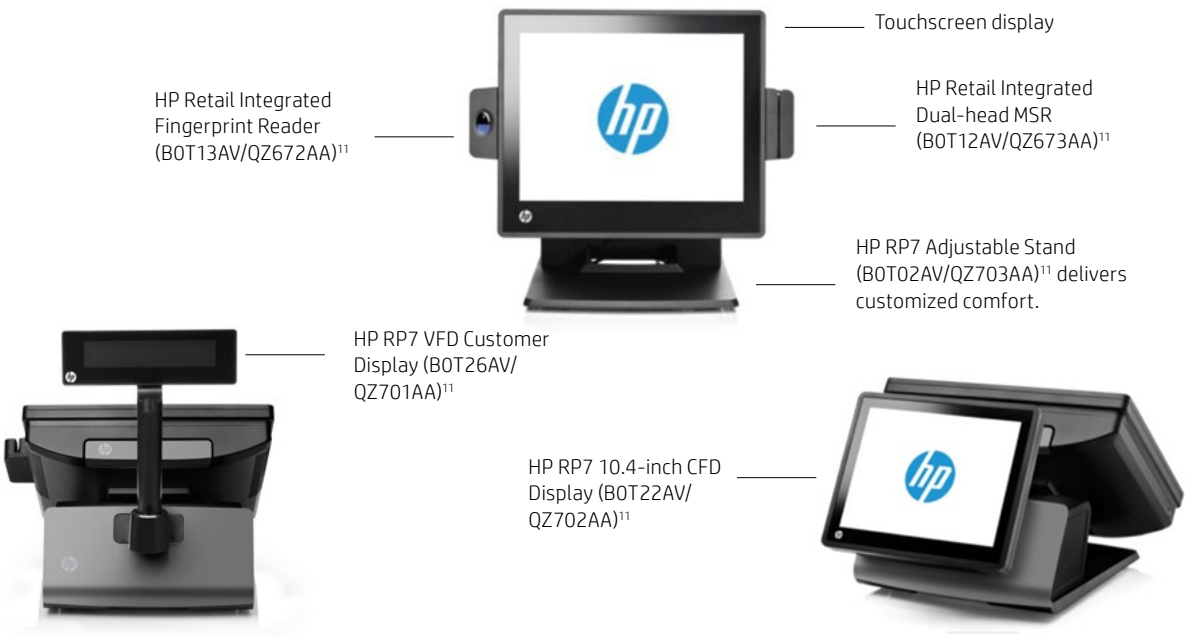
Note: All product images depict the Projected Capacitive display.


Touchscreen display
HP Retail Integrated Fingerprint Reader (B0T13AV/QZ672AA)[11]
HP Retail Integrated Dual-head MSR (B0T12AV/QZ673AA)[11]
HP RP7 Adjustable Stand (B0T02AV/QZ703AA)[11] delivers customized comfort.
HP RP7 VFD Customer Display (B0T26AV/QZ701AA)[11]
HP RP7 10.4-inch CFD Display (B0T22AV/QZ702AA)[11]

* Not all features are in all editions of Windows 7. Systems may require upgraded and/or separately purchased hardware to take full advantage of Windows 7 functionality. See http://www.microsoft.com/windows/windows-7 for details.

† The following are not supported by Novell SUSE Linux Enterprise Desktop: HP ProtectTools, Power Management features, Multi-touch capabilities (Projected Capacitive Touch option). Systems configured with Linux do not qualify for ENERGY STAR®.

1. Each sold separately. HP does not support the use of any other standard USB device on the displays beyond the HP Retail Integrated Fingerprint Reader, HP Retail Integrated Dual-Head MSR and HP Retail Integrated Webcam.
2. Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. 64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel® 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Intel's numbering is not a measurement of higher performance.
3. Some functionality of this technology, such as Intel® Active management technology and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications for Intel vPro technology is dependent on 3rd party software providers. Microsoft Windows required
4. Projected capacitive technology is available on 15-inch and 17-inch displays; resistive touchscreen is available on the 15-inch display.
5. Certain restrictions and exclusions apply. HP Care Pack Services extend service contracts beyond the standard warranties. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts from date of hardware purchase. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at hp.com/hps/carepack.
6. Above 3 GB, all memory may not be available due to system resource requirements.
7. For hard drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 16 GB (for Windows 7) of system disk is reserved for system recovery software.
9. Audio input ports are re-taskable as a Line-in or Microphone-in port. External speakers must be powered externally. Multi-streaming can be enabled in the Realtek control panel to allow independent audio streams to be sent to/from the front and rear jacks. This allows for different audio applications to use separate audio ports on the system. For example, the front jacks could be used with a headset for a communications application while the rear jacks are being used with external speakers and a multimedia application.
10. All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
11. "Configure to order (CTO)" product numbers ending in AV should be used when configuring the system at the initial point of purchase. "After-market options (AMO)" product numbers ending in AA should be used when adding peripherals after the initial purchase of a configured solution.
12. Internet access, sold separately, is required for transmission of images and video over a network.

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